

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	D	DAMPER - AUTOMATIC	HD	HOOD	MH	MAN-HOLE	SD	SUPPLY AIR DIFFUSER
AAHX	AIR TO AIR HEAT EXCHANGER	D-1	OUTDOOR AIR DAMPER	HOA	HAND/OFF/AUTOMATIC	MHP	MOTOR HORSEPOWER	SDPR	SMOKE DAMPER
AB	AIR BLENDER	D-2	RETURN AIR DAMPER	HP	HEAT PUMP	MN	MINIMUM	SDR	SMOKE DAMPER (RETURN)
AAV	AUTOMATIC AIR VENT	D-3	RELIEF AIR DAMPER	HP	HORSEPOWER	MM	MILLIMETER	SDS	SMOKE DAMPER (SUPPLY)
ACC	AIR COOLED CONDENSER	DB	DECIBELS	HPDT	HIGH PRESSURE DRIIP TRAP	MOV	MOTOR OPERATED VALVE	SEN	SENSIBLE HEAT
ACCH	AIR COOLED CHILLER	DB	DRY-BULB TEMPERATURE	HPR	HIGH PRESSURE RETURN (STEAM CONDENSATE)	MFR	MEDIUM PRESSURE RETURN (STEAM CONDENSATE)	SG	SUPPLY FAN
ACCU	AIR-COOLED CONDENSING UNIT	DDC	DEGREE	HPS	HIGH PRESSURE SUPPLY (STEAM) CONDENSATE	MPS	MEDIUM PRESSURE STEAM	SH	STEAM HUMIDIFIER
ACU	AIR CONDITIONING UNIT	DEGR	DEGREE	HRC	HEAT RECOVERY COIL	MRI	MAGNETIC RESONANCE IMAGING	SHC	STEAM HEATING COIL
ACD	AUTOMATIC CONTROL	DF	DIFFUSER	HRD	HEAT RECOVERY DEVICE	MTD	MEAN TEMPERATURE DIFFERENCE	SI	SQUARE INCHES
ACD-TP	AUTOMATIC CONTROL DAMPER-TWO POSITION	DIA	DIAMETER	HRP	HYDRONIC RADIANT (CEILING) PANEL	MVD	MANUAL VOLUME DAMPER	SP	STATIC PRESSURE
AD	ACCESS DOOR	DW	DEIONIZED WATER	HRW	HEAT RECOVERY WHEEL	MZ	MULTI-ZONE	SP GR	SPECIFIC GRAVITY
AF	AFTER FILTER	DP	DEW POINT TEMPERATURE	HSTAT	HUMIDIFIER TERMINAL	NA	NOT APPLICABLE	SPR	SUPPLY PROCESS AND DISTRIBUTION
AFCV	AIR FLOW CONTROL VALVE	DPA	DIFFUSER PLATE	HTM	HUMIDIFIER MOUNTED	NC	NORMALLY CLOSED	SPRV	STEAM PRESSURE REDUCING VALVE
AFD	ABOVE FINISHED FLOOR	DPS	DIFFERENTIAL PRESSURE ASSEMBLY	HUM	HUMIDIFIER UNIT MOUNTED	NG	NATURAL GAS	SPS	STATIC PRESSURE SENSOR
AFMD	AIR FLOW MEASURING DEVICE	DX	DIRECT EXPANSION	HUJ	HEATING AND VENTILATING UNIT	NO	NORMALLY OPEN	SQ FT	SQUARE FOOT (FEET)
AFW	AIR FLOW WHEEL (FAN)	DXCC	DIRECT EXPANSION COOLING COIL	HW	HOT WATER	NGFM	NATURAL GAS FLOWMETER	SS	STAINLESS STEEL
AHL	AIR HANDLING UNIT	EA	EXHAUST AIR	HWC	HOT WATER COIL	NOA	NATIONAL OCEANIC & ATMOSPHERIC	SSR	SOLID SEPARATOR
AMP	AMPERE	EAT	ENTERING AIR TEMPERATURE	HWP	HEATING HOT WATER PUMP	NOAA	ADMINISTRATION	ST	STEAM TRAP
AP	ACCESS PANEL	EC	EVAPORATIVE COOLER	HWR	HEATING HOT WATER RETURN	NOM	NOMINAL	STH	STEAM UNIT HEATER
APD	AIR PRESSURE DROP	ECC	ENGINEERING CONTROL CENTER	HWS	HEATING HOT WATER SUPPLY	NPLV	NON-STANDARD PART LOAD VALUE	SV	STEAM PRESSURE REDUCING VALVE
ARI	AIR SEPARATOR	ECU	EVAPORATIVE CONDENSER UNIT	HMHU	HOT WATER UNIT HEATER	NPS	NET POSITIVE SUCTION HEAD	SVS	STEAM VENT SILENCER
AS	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	EDH	ELECTRIC DUCT HEATER	HV	HOT WATER UNIT HEATER	NTS	NOT TO SCALE	SVHX	STEAM TO WATER HEAT EXCHANGER
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	EER	ENERGY EFFICIENCY RATIO	HX	HEAT EXCHANGER	OA	OUTSIDE AIR	T & PCV	TEMPERATURE AND PRESSURE CONTROL VALVE
AW	AIR WASHER	EF	EXHAUST FAN	HZ	HEAT	OAG	OUTSIDE AIR GRILLE	TAB	TESTING, ADJUSTING, BALANCE
AXF	AXIAL FLOW	EGS	EMERGENCY GAS SHUTOFF	I/O	INPUT/OUTPUT	OAI	OUTSIDE AIR INTAKE	TD	TEMPERATURE DIFFERENCE
B	BOILER	EGT	ENTERING GLYCOL TEMPERATURE	IAQ	INDOOR AIR QUALITY	OD	OUTSIDE DUCT TRAP	TOH	TOTAL DYNAMIC HEAD
BD	BUTTERFLY DAMPER	EH	EXHAUST HOOD	IBT	INVERTED BUCKET TRAP	OFM	OPERATING ROOM	TDS	TOTAL DISSOLVED SOLIDS
BDD	BACKDRAFT DAMPER	EJ	EXPANSION JOINT	ICF	IN-CENTRIFUGAL FAN	OR	OPERATING ROOM	TR	TRANSFER GRILLE
BDR	BASE BOARD RADIATOR	ENT	ENTERING	ID	INSIDE DIAMETER	P	PUMP	TR	TRAP
BFP	BACKFLOW PREVENTER	ER	EXHAUST REGISTER	IFB	INTEGRAL FACE AND BYPASS	PA	PASSED	TR	TOP REGISTER
BFT	BOILER PLANT FIRE TUBE	ERP	ELECTRIC REHEAT PANEL	IN HG	INCHES OF MERCURY	PC	PUMPED CONDENSATE	TSP	TOTAL STATIC PRESSURE
BG	BOTTOM GRILLE	ESP	EXTERNAL STATIC PRESSURE	IN WC	INCH WATER COLUMN	PCF	POUNDS PER CUBIC FOOT (FEET)	TSTAT	THERMOSTAT
BHP	BRAKE HORSEPOWER	ET	EXPANSION TANK	IN WG	INCH WATER GAUGE	PD	PRESSURE DROP	TU	TERMINAL UNIT
BHW	HOT WATER HEATING BOILER	ETO	ETHYLENE OXIDE	IN-LB	INCH-POUND	PEF	PROPELLER (TYPE) EXHAUST FAN	TUV	THRU-WALL UNIT
BHK	BOILER BLOWDOWN HEAT EXCHANGER	EWC	EVAPORATIVE WATER COOLER	IRH	INTEGRATED PART LOAD VALVE	PF	PRESSURE FILTER	UC	UNDER CUT
BIW	BACKWARD INCLINED WHEEL (FAN)	EWT	ENTERING WATER TEMPERATURE	IS	INSECT SCREEN	PGW	PROPYLENE GLYCOL-WATER (SOLUTION)	UC	UNIT COOLER
BMT	BONE MARROW TRANSPLANT	EK	EXISTING	IU	INDUCTION UNIT	PHC	PREHEAT COIL	UH	UNIT HEATER
BR	BOTTOM REGISTER	F	FAHRENHEIT	IV	INLET VANES	PPM	PARTS PER MILLION	URV	UNDERWRITERS LABORATORY UPBLAST UNIT VENTILATOR
BSC	BIOLOGICAL SAFETY CABINETS	FAT	FLOAT AND THERMOSTATIC COMBINATION FIRE SMOKE DAMPER	kg	KILOGRAM	PRS	PRESSURE REGULATING (VALVE) STATION	V	VALVE
BT	BLOWOFF TANK	F/SDPR	BRITISH THERMAL UNIT	kg/HR	KILOGRAM PER HOUR	PRV	PRESSURE REGULATING VALVE	VAF	VANE-AXIAL FAN
BTC	BLOWOFF TANK CONTROL VALVE	FA	FREE AREA	kPa	KILOPASCAL	PSI	POUNDS PER SQUARE INCH	VAV	VARIABLE AIR VOLUME
BTU	BRITISH THERMAL UNIT PER HOUR	FC	FLEXIBLE CONNECTION	kW	KILOWATT	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE	VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
BTUH	BRITISH THERMAL UNIT PER HOUR	FCU	FAN COIL UNIT (4 PIPE)	kWh	KILOWATT HOUR	PSIG	POUNDS PER SQUARE INCH - GAGE	VFD	VARIABLE FREQUENCY DRIVE
BWT	BOILER PLANT WATER TUBE	FQJ	FAN COIL UNIT COOLING ONLY	L	LITER	PSS	PRIMARY SECONDARY SYSTEM	VHA	VIBRATION ISOLATOR
C	CENTIGRADE (CELCIUS)	FCUH	FAN COIL UNIT HEATING ONLY	L	LITER	PSV	PRESSURE SAFETY VALVE	VIV	VARIABLE INLET VANES
CC	COOLING COIL	FCW	FORWARD CURVED WHEEL (FAN)	L/h	LITERS PER HOUR	PTAC	PACKAGED TERMINAL AIR CONDITIONER	VV	VACUUM PUMP
CCD	COOLING COIL CONDENSATE DRAIN	FD	FLOOR DRAIN	L/min	LITERS PER MINUTE	R/E	RETURN OR EXHAUST	VPS	VARIABLE PRIMARY SYSTEM
CD	CEILING DIFFUSER	FE	FIRE DAMPER	L/s	LITERS PER SECOND	RAH	ROTARY AIR HEAT EXCHANGER	VR	VARIABLE RETURN (STEAM CONDENSATE) RETURN
CEINT	CENTRIFUGAL	FH	FINE FILTER	LAT	LEAVING AIR TEMPERATURE	RAT	RETURN AIR TEMPERATURE	W	WATTS
CFH	CUBIC FEET PER HOUR	FHX	FINE GAS/FEEDWATER HEAT EXCHANGER	LB/HR	POUNDS PER HOUR	RCCH	REMOTE CONDENSER CHILLER	WB	WET-BULB (TEMPERATURE)
CFM	CUBIC FEET PER MINUTE	FM	FLOWMETER	LF	LEAVING FOOT (FEET)	RCU	RECIPROCATING CHILLER UNIT	WC	WATER COOLED
CFP	CHEMICAL FEED PUMP	FOP	FUEL OIL PUMP	LH	LATENT HEAT	RDS	ROOM DATA SHEETS	WCH	WATER COOLED CHILLER
CG	CEILING GRILLE	FOT	FUEL OIL TANK	LP	LOW PRESSURE RETURN (STEAM) CONDENSATE	REA	RELIEF AIR	WCCU	WATER COOLED CONDENSING UNIT
CH	CHILLER	FOT	FUEL OIL TANK	LP	LOW PRESSURE RETURN (STEAM) CONDENSATE	RF	RETURN FAN	WCPU	WATER COOLED HEAT PUMPS
CHP	CHILLED WATER PUMP	FOH	FEET PER HOUR	LPRC	LOW PRESSURE RETURN (STEAM) CONDENSATE	RG	RETURN GRILLE	WCU	WATER COOLED UNIT
CHW	CHILLER WATER	FFS	FEET PER SECOND	LPS	LOW PRESSURE STEAM (CLEAN)	RH	RELATIVE HUMIDITY	WEF	WALL EXHAUST FAN
CHR	CHILLED WATER RETURN	FFU	FAN POWERED TERMINAL UNIT	L/s	LITERS PER SECOND	RHC	REHEAT COIL	WF	WATER FILTER
CHS	CHILLED WATER SUPPLY	FR	FLOOR REGISTER	LI-X	LIQUID TO LIQUID HEAT EXCHANGER (CLEAN)	RHG	REFRIGERANT HOT GAS	WFCV	WATER FLOW CONTROL VALVE
C	CAST IRON	FRP	FIBER REINFORCED POLYESTER FLOW SWITCH	LPS	LOW PRESSURE STEAM (CLEAN)	RL	REFRIGERANT LIQUID LINE	WFM	WATER FLOWMETER
CM	CARBON MONOXIDE	FST	FREEZE/STAT	LSD	LOCAL TEMPERATURE CONTROL	RUA	REVERSE OSMOSIS	WG	WATER GAGE
CM	CUBIC METER	FT	FEET	LTP	LOCAL TEMPERATURE CONTROL	RPM	REVOLUTIONS PER MINUTE	WPD	WATER SIDE PRESSURE DROP
CM/S	CUBIC METER PER SECOND	FT-LB	FOOT-POUND	LTV	LEAVING	RS	RETURN REGISTER	YR	YEAR
CO	CARBON DIOXIDE	FTR	FIN TUBE RADIATION	LVR	LOW VOLTAGE	RTU	ROOF TOP UNIT		
COMP	COMPRESSOR UNIT	FV	FACE VELOCITY	LWT	LEAVING WATER TEMPERATURE	RV	RELIEF VALVE		
COP	COEFFICIENT OF PERFORMANCE	GA	GAUGE	M	METER, SI UNIT	SA	SUPPLY AIR		
CR	CEILING REGISTER	GAL	GALLONS	M	METER, SI UNIT	SAD	SOUND ATTENUATING DEVICE		
CS	CONDENSATE PUMP	GH	GRAVITY HOOD	M/s	METERS PER SECOND (OR METERS/SECOND)	SAT	SUPPLY AIR TEMPERATURE		
CSG	CLEAN STEAM GENERATOR	GPD	GALLONS PER DAY	MA	MIXED AIR	SC	SHADING COEFFICIENT		
CT	COOLING TOWER	GPH	GALLONS PER HOUR	MAT	MIXED AIR TEMPERATURE	SCFM	STANDARD CUBIC FEET PER MINUTE		
CU	CONDENSING UNIT	GPM	GALLONS PER MINUTE	MAJ	MAKE-UP AIR UNIT	SCI	SPINAL CODE INJURY		
CUH	CABINET UNIT HEATER	GPR	GAS PRESSURE REGULATOR	MAV	MAKE-UP AIR VENT	SCR	SILICON CONTROLLED RECTIFIER		
CV	CONSTANT VOLUME	GS	GALVANIZED STEEL	MB	MIXING BOX	SD	SMOKE DETECTOR		
CW	COLD WATER (POTABLE)	H	HUMIDIFIER	MB	MIXING BOX				
CWCC	CHILLED WATER COOLING COIL	H&CW	HOT & COLD WATER	MBH	1000 BTUH				
CWP	CONDENSER WATER PUMP	HAC	HOUSEKEEPING AID CLOSET	MCA	MINIMUM BRANCH CIRCUIT AMPACITY				
CWR	CONDENSER WATER RETURN (TO COOLING TOWER)	HB	HOSE BIBB	MER	MECHANICAL EQUIPMENT ROOM				
CWS	CONDENSER WATER SUPPLY (FROM COOLING TOWER)	HC	HEATING COIL	MERV	MINIMUM EFFICIENCY REPORTING VALUE				

MECHANICAL GENERAL NOTES

- ALL WORK SHALL CONFORM TO ALL LOCAL, STATE, AND NATIONAL CODES ALONG WITH ALL VA STANDARDS. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR HIS WORK.
- ALL MATERIALS, EQUIPMENT AND PRODUCTS INCORPORATED IN THE WORK UNDER THE CONTRACT SHALL BE NEW, OF A SUITABLE GRADE FOR THE PURPOSES INTENDED, AND TO THE EXTENT POSSIBLE, STANDARD PRODUCTS OF THE VARIOUS MANUFACTURERS EXCEPT WHERE SPECIAL CONSTRUCTION OR PERFORMANCE FEATURES ARE CALLED FOR.
- ANY EQUIPMENT OR MATERIAL DEVIATIONS FROM THAT SPECIFIED OR DETAILED ON THIS DRAWINGS SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT/ENGINEER. ALL PROPOSED EQUIPMENT DEVIATIONS SUBMITTED SHALL BE SIMILAR BOTH IN QUALITY AND CAPACITY TO THAT EQUIPMENT SPECIFIED.
- ALL MECHANICAL EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS LABORATORIES (U.L.).
- THE MECHANICAL CONTRACTOR SHALL INSTALL EQUIPMENT AS SHOWN ON THE DRAWINGS ALLOWING FOR SUFFICIENT ACCESS AND CLEARANCE SPACE FOR EQUIPMENT MAINTENANCE, REPAIRS AND REPLACEMENT. PROVIDE PROPER CLEARANCES FOR REQUIRED PIPING AND ELECTRICAL SERVICES AND CONNECTIONS. INSTALL ALL EQUIPMENT WITH REQUIRED ACCESS AND CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS AND/OR WITH ALL APPLICABLE CODES AND STANDARDS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION AND ROUTING OF ALL PROPOSED DUCTWORK, PIPING AND EQUIPMENT WITHIN THE BUILDING STRUCTURE.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT EQUIPMENT. LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE EQUIPMENT PROVIDED UNDER THIS CONTRACT.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING FOR HIS EQUIPMENT.
- DUCTWORK AND PIPING LAYOUTS AND LOCATIONS ARE SCHEMATIC. DO NOT SCALE THESE DRAWINGS. EXACT ROUTING OF DUCTWORK AND PIPING MUST BE DETERMINED IN THE FIELD. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BY ACTUAL MEASUREMENT AND OBSERVATION BEFORE ORDERING OR FABRICATING ANY DUCTWORK, PIPING OR EQUIPMENT. ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS OR DIMENSIONS SHALL BE REPORTED TO THE A/E AND V/MAC COIR BEFORE THE PERFORMANCE OF ANY WORK. FAILURE TO VERIFY AND REPORT SHALL CONSTITUTE THE CONTRACTOR'S ACCEPTANCE OF THE EXISTING CONDITIONS AS FIT FOR THE PROPER EXECUTION OF HIS WORK. SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATION OF CEILING INSTALLATION.
- DUCTWORK AND PIPING SHALL BE KEPT AS CLOSE AND HIGH AS POSSIBLE TO THE BUILDING WALLS, CEILING AND FLOOR AND ROOF STRUCTURE IN ORDER THAT THE MAXIMUM AMOUNT OF SPACE IS AVAILABLE. ADDITIONAL OFFSETS, FITTINGS, ETC. NOT SHOWN BUT REQUIRED TO MAINTAIN MAXIMUM CLEARANCE SHALL BE PROVIDED AT NO ADDITIONAL COST.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING, PAINTING AND CLEANING ASSOCIATED WITH THIS PROJECT UNLESS NOTED OTHERWISE.
- PROVIDE A COMPLETE 1-YEAR WARRANTY ON ALL LABOR AND MATERIALS.
- CONTRACTOR SHALL FURNISH A BOUND SET OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT TO THE OWNER UPON COMPLETION OF PROJECT.
- INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
- THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, INCLUDING THE SCHEDULES AND DETAILS PRIOR TO INSTALLATION OF ANY MECHANICAL SYSTEMS AND SHALL RESOLVE ANY CONFLICTS WITH THE ENGINEER.
- DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS SPECIFICALLY INDICATED OTHERWISE. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL PIPING TO ALLOW APPLICATION OF INSULATION
- THE MECHANICAL CONTRACTOR SHALL TAKE THE LEAD IN PREPARATION OF COORDINATION DRAWINGS. SUCH DRAWINGS SHALL BE COMPLETED WITH COORDINATION FROM THE GENERAL CONTRACTOR AND ALL OTHER MAJOR AND MINOR SUBCONTRACTORS. PROVIDE PLAN VIEWS, SECTIONS AND ELEVATIONS, AS REQUIRED, TO FULLY COORDINATE ALL NEW WORK WITH ITSELF AND EXISTING CONDITIONS. DRAWINGS SHALL SHOW BUT NOT BE LIMITED TO: ALL DUCTWORK, MECHANICAL EQUIPMENT, MECHANICAL PIPING, FIRE PROTECTION PIPING, PLUMBING PIPING, CABLE TRAYS, LIGHTING FIXTURES, CEILING GRID AND HEIGHT, BEAMS AND JOISTS (WITH ELEVATIONS MARKED), ELECTRICAL CONDUIT LARGER THAN 2 INCHES IN DIAMETER AND ANY OTHER CEILING MOUNTED DEVICES OR EQUIPMENT THAT MAY BE REQUIRED TO BE INSTALLED. IF THERE ARE ANY OUTSTANDING ISSUES THAT CANNOT BE RESOLVED, CONSULT WITH ARCHITECT AND/OR ENGINEER (THROUGH THE V/M COIR) FOR GUIDANCE AND MAKE CORRECTIONS IN ACCORDANCE WITH DIRECTIONS GIVEN. IT IS IMPORTANT TO NOTE THAT FABRICATION CANNOT BEGIN UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED. ANY INSTALLATION COMMENCED PRIOR TO APPROVAL IS TAKEN AT THE CONTRACTORS OWN RISK AND MAY HAVE TO BE MODIFIED, MOVED AND/OR RECONFIGURED AT CONTRACTORS COST.

BID ALTERNATES

ALT	DESCRIPTION
1	DO NOT PROVIDE DESIGNATED FALL DETERRENT/SECURITY SCREENING AND CARD READERS AT ENTRANCES TO STAIRWELLS. REFER TO DRAWINGS ON GH103 FOR EXTENT OF FALL DETERRENT/SECURITY SCREENING TO BE REMOVED. DO NOT PROVIDE CARD READERS AT ENTRANCE TO STAIR TOWERS FOR DOORS L105 AND 104.
2	DO NOT PROVIDE THE BRICK VENER AT THE NORTHEAST STAIR TOWER AND THE SOUTHWEST STAIR TOWER. DO NOT PROVIDE THE ALUMINUM STOREFRONT WINDOW ENCLOSURE OF THE NORTHEAST STAIR TOWER. PROVIDE METAL GUARDRAILS AT WINDOW OPENINGS IN LIEU OF ALUMINUM STOREFRONT.
3	DO NOT PROVIDE FALL DETERRENT IN ITS ENTIRETY ON ALL LEVELS.
4	DO NOT PROVIDE AREA #1 - LEVEL 3. REFER TO DRAWINGS ON GH103 FOR EXTENT OF AREA DEDUCT.
5	DO NOT PROVIDE THE ALUMINUM STOREFRONT ENCLOSURE OF THE TOP FLOOR LEVEL 3 LOBBY ENCLOSURE. DO NOT PROVIDE THE ALUMINUM STOREFRONT WINDOW ENCLOSURE OF THE SOUTHWEST STAIR TOWER. PROVIDE METAL GUARDRAILS AT WINDOW OPENINGS IN LIEU OF ALUMINUM STOREFRONT.
6	DO NOT PROVIDE AREA #2 - LEVEL 3. REFER TO DRAWINGS ON GH103 FOR EXTENT OF AREA DEDUCT.
7	DO NOT PROVIDE AREA #3 - LEVEL 3. REFER TO DRAWINGS ON GH104 FOR EXTENT OF AREA DEDUCT.
8	DO NOT PROVIDE AREA #4 - LEVEL 2. REFER TO DRAWINGS ON GH104 FOR EXTENT OF AREA DEDUCT. DO NOT PROVIDE SECOND ELEVATOR #2 AND ASSOCIATED EQUIPMENT.
9	DO NOT PROVIDE PTZ AND FIXED CAMERAS THROUGHOUT GARAGE. ALL INFRASTRUCTURE IS TO REMAIN IN BASE BID FOR FUTURE CONNECTIVITY.

HVAC DESIGN DATA						
DESIGN CONDITIONS	SUMMER			WINTER		LOWEST AVERAGE ANNUAL DEWPOINT
	TEMP	WET BULB TEMP	% HUMIDITY	TEMP	DEWPOINT TEMP	% HUMIDITY
OUTDOOR DESIGN CONDITIONS	90.3 °F	74.6 °F	48.5 %	-4.0 °F	-16.0 °F	20
ELECTRICAL ROOM SECURITY/IT	86.0 °F			40.0 °F		
ELEVATOR MACHINE ROOM	80.0 °F					
	77.0 °F			50.0 °F		

ARCHITECT/ENGINEERS:

PROJECT LEAD  
Architect, Structural Engineer, Civil Engineer  
**GUIDON DESIGN**  
905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204  
317.500.6386 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

MEP Engineer  
APOGEE CONSULTING GROUP

1151 Kildaire Farm Rd.  
Suite 120  
Cary, NC 27511  
Tele: 919-858-7420

Functional Design  
CARL WALKER INC.

11920 S. Highland Ave.  
Suite 2107  
Lombard, IL 60148  
Tele: 630-307-3800

Drawing Title  
MECHANICAL NOTES AND LEGEND

Approved for Design Concept:  
FACILITY MANAGEMENT  
DIVISION MANAGER

BID SET

Project Title  
PARKING STRUCTURE - LOT 7

Location  
CLEMENT J ZABLOCKI VAMC

Date  
1 DEC 2015

Checked By:  
DJR

Drawn By:  
ORD

A/E Project Number  
14.1020.02

Building Number  
#152

Drawing Number  
MI001

OFFICE OF  
FACILITIES  
MANAGEMENT

VA Project Number  
695-325



U.S. Department  
of Veterans Affairs

VAMC MILWAUKEE  
5000 W. National Ave. Milwaukee, WI 53295





[illegible]

A



100

C

2

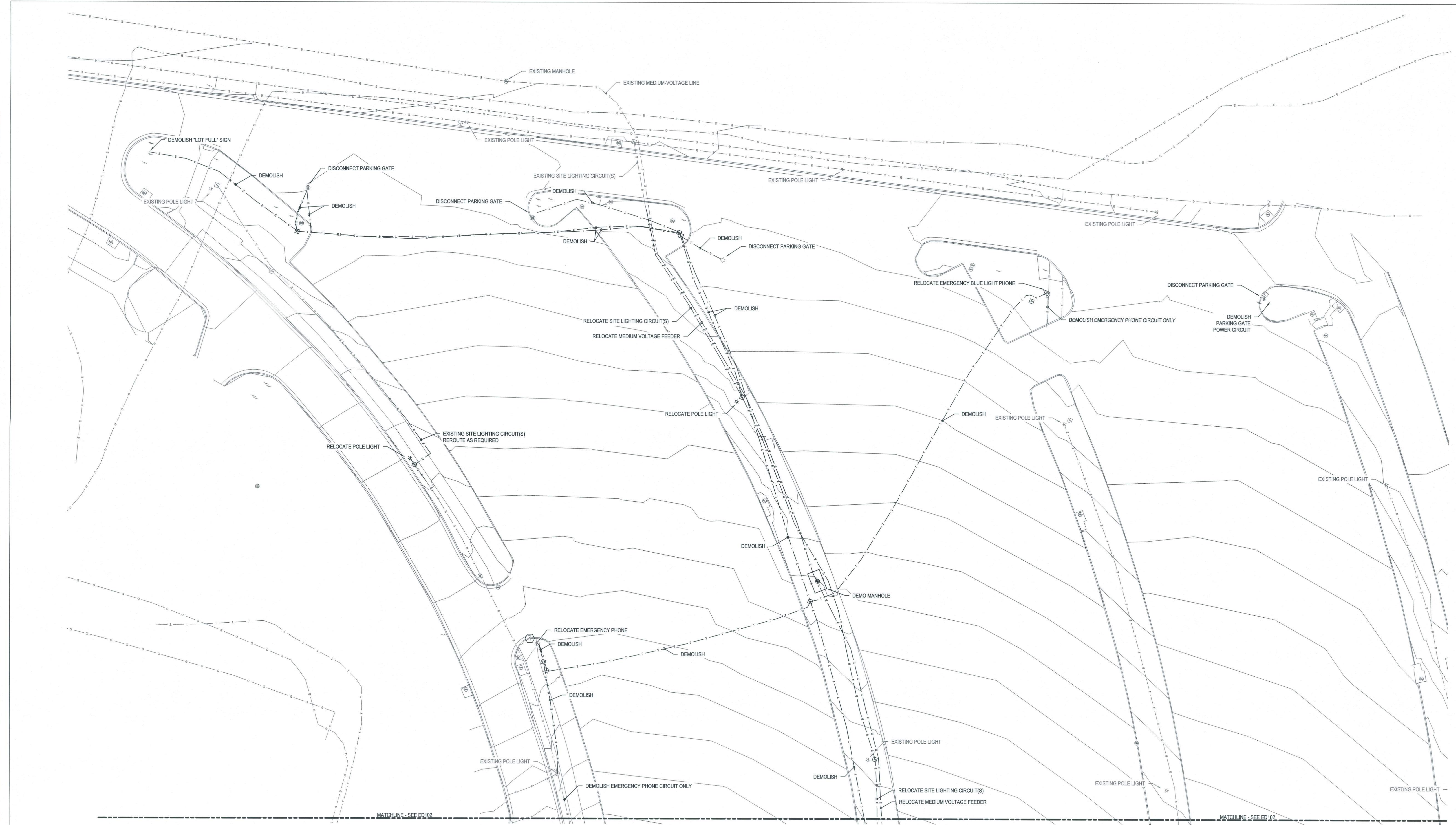
F







three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot



GENERAL NOTES

- A. DEMOLITION OF UNDERGROUND LINES INVOLVES REMOVING CONDUCTORS FROM CONDUIT TO SOURCE OR FIRST SPLICE. UNDERGROUND CONDUIT MAY BE ABANDONED WHERE IT DOES NOT INTERFERE WITH CONSTRUCTION. STUB-UPS/RISERS SHALL BE DEMOLISHED TO BELOW GRADE. EMPTY MANHOLES SHALL BE DEMOLISHED. CONCRETE-ENCASED CONDUIT SHALL BE REMOVED COMPLETELY.
- B. SEE EE101 AND EE102 FOR DETAILS OF UNDERGROUND LINE RELOCATIONS.
- C. WHERE DEVICES ARE REMOVED THAT ARE A PART OF A CIRCUIT SERVING OTHER DEVICES, CIRCUIT CONTINUITY SHALL BE MAINTAINED. EXTEND AND RE-ROUTE CIRCUITS AS REQUIRED.

KEYED NOTES

- 1. EMERGENCY PHONE SHALL BE RELOCATED TO SOUTH END OF LOT 8 (SEE EE102) DURING CONSTRUCTION PHASE 1. EXISTING FIBER AND DATA LINES SHALL BE RE-ROUTED TO NEW LOCATION TO SERVE THE PHONE TEMPORARILY DURING ALL PHASES OF CONSTRUCTION. UPON COMPLETION OF GARAGE CONSTRUCTION, PHONE SHALL BE RE-FED FROM THE GARAGE AND EXISTING CONDUCTORS SHALL BE DEMOLISHED.

1 ELECTRICAL SITE DEMOLITION PLAN  
ED101 1" = 20'

Revisions:	Date

VAMC MILWAUKEE  
5000 W. National Ave. Milwaukee, WI 53295

JOHN K. MASON  
E-43870  
RALEIGH NC  
PROFESSIONAL ENGINEER

ARCHITECT/ENGINEERS:

PROJECT LEAD  
Architect, Structural Engineer, Civil Engineer

**GUIDON DESIGN**

905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204  
317.800.6399 WWW.GUIDONDESIGN.COM

SUSTAINABLE ARCHITECTURE + ENGINEERING

MEP Engineer  
APOGEE CONSULTING GROUP

1151 Kildaire Farm Rd.  
Suite 120  
Cary, NC 27511

Tele: 919-858-7420

Functional Design  
CARL WALKER INC.

11920 S. Highland Ave.  
Suite 2107  
Lombard, IL 60148

Tele: 630-307-3800

Drawing Title  
ELECTRICAL SITE DEMOLITION PLAN

Approved for Design Concept:  
FACILITY MANAGEMENT  
DIVISION MANAGER

Project Title  
PARKING STRUCTURE  
LOT 7

Location  
CLEMENT J ZABLOCKI VAMC

Date  
1 DEC 2015

Checked By:  
JKM

Drawn By:  
SCB

A/E Project Number  
14-692

Building Number  
#152

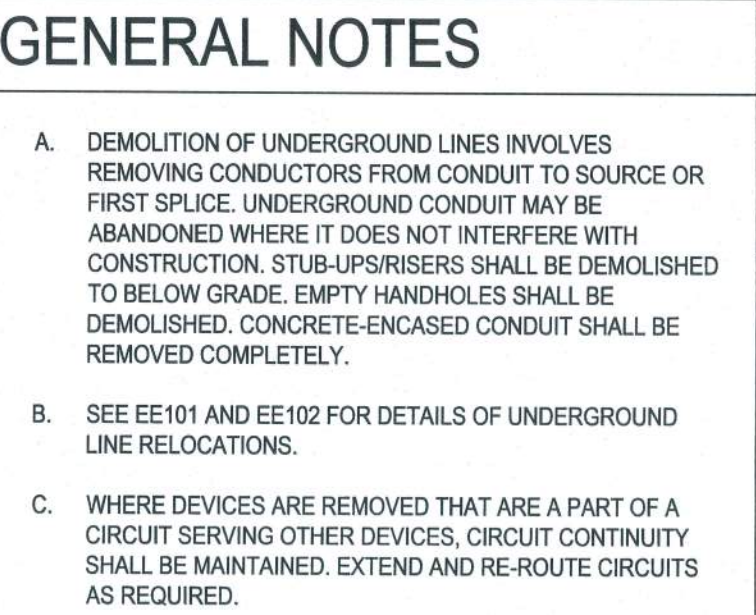
Drawing Number  
ED101

OFFICE OF  
FACILITIES  
MANAGEMENT



VA Project Number  
695-325

VA U.S. Department of Veterans Affairs



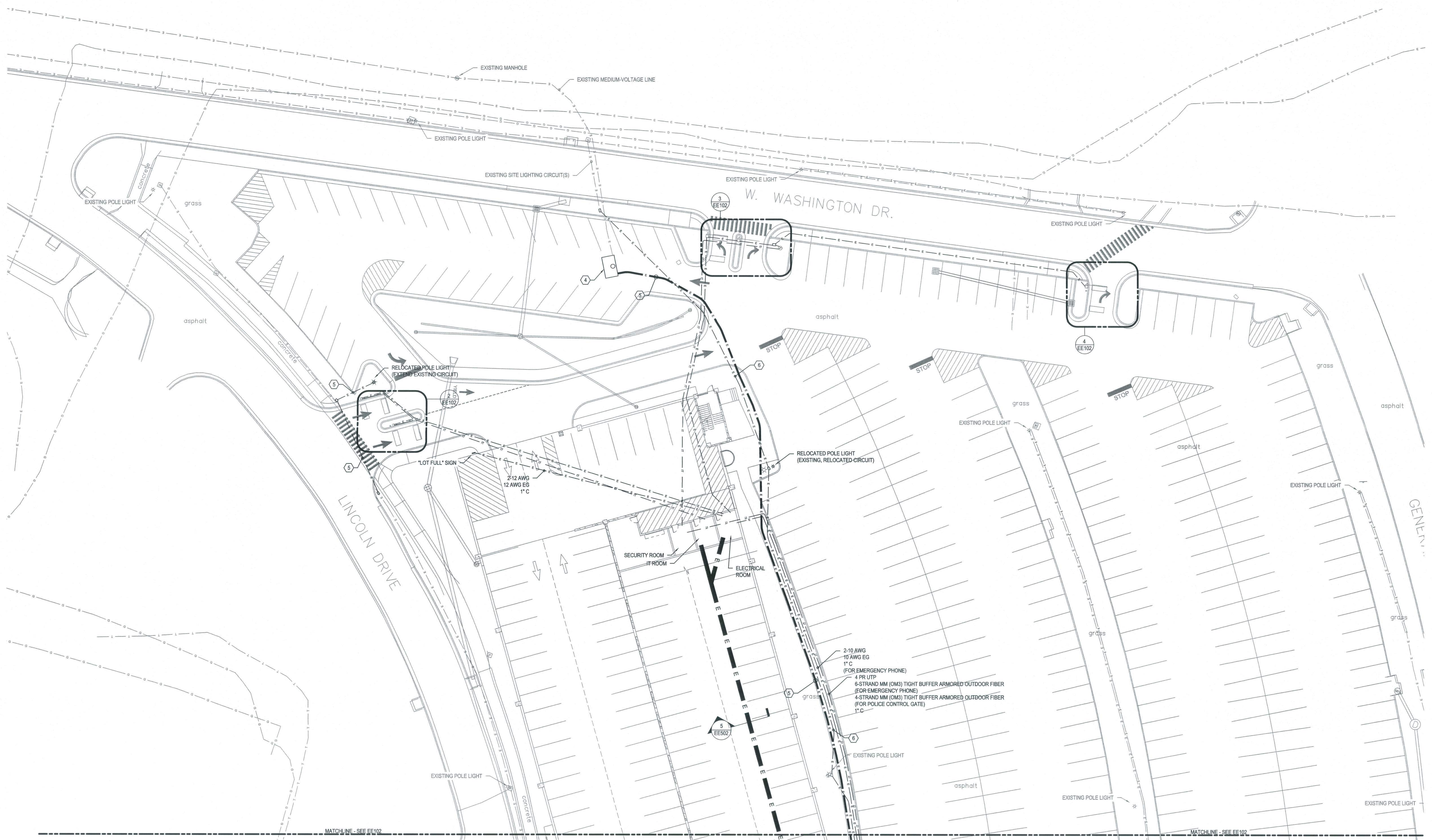


1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

BID SET					
Drawing Title  ELECTRICAL SITE DEMOLITION PLAN	Project Title  PARKING STRUCTURE LOT 7		A/E Project Number 14-692	OFFICE OF FACILITIES MANAGEMENT	
			Building Number #152		
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location CLEMENT J ZABLOCKI VAMC		Drawing Number	VA Project Number 695-325	
	Date 1 DEC 2015	Checked By: JKM	Drawn By: SCB	<div>ED102</div> <div>   U.S. Department of Veterans Affairs </div>	



three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot  
one sixteenth inch = one foot



1 ELECTRICAL SITE PLAN  
EE101 1" = 20'

GENERAL NOTES

- A. CONDUIT ROUTING SHOWN IS SCHEMATIC ONLY. CONTRACTOR SHALL DETERMINE ALL CONDUIT ROUTING.
- B. ALL WORK SHALL BE COORDINATED WITH COR AND OTHER TRADES.
- C. AFTER WORK IS DONE, CONTRACTOR SHALL RESTORE ALL AFFECTED AREAS TO THEIR ORIGINAL CONDITION.
- D. COORDINATE EXACT LOCATIONS AND ANGLES OF EMERGENCY PHONES WITH THE COR.
- E. VERIFY PARKING CONTROL AND EMERGENCY PHONE CABLING REQUIREMENTS WITH MANUFACTURER REPRESENTATIVE.
- F. INSTALL POLE LIGHTS PER POLE BASE DETAIL, EE502.
- G. INSTALL EMERGENCY BLUE LIGHT PHONES PER MANUFACTURER'S RECOMMENDATIONS.
- H. PROVIDE NEW PANEL SCHEDULE FOR PANEL 'SL1'.

KEYED NOTES

- 1. APPROXIMATE LOCATION OF EXISTING TERMINATION OF CONCRETE-ENCASED DUCT BANK FROM LOT 4 GARAGE. INTERCEPT EACH CONDUIT TO CONTINUE DUCT BANK. SEE SINGLE-LINE DIAGRAM FOR DETAILS. CONDUIT MAY BE REDUCED TO SIZE INDICATED ON SINGLE-LINE. SPARE 4" CONDUIT SHALL STUB UP IN IT ROOM.
- 2. CONDUIT BENEATH ROAD SHALL BE BY DIRECTIONAL BORE. ROAD IS TO REMAIN IN-USE DURING CONSTRUCTION. SEE CIVIL PLANS FOR ADDITIONAL DETAILS.
- 3. NOT USED.
- 4. PROVIDE 6x10" MANHOLE FOR MEDIUM-VOLTAGE INTERCEPTION AND RE-ROUTING. SEE MANHOLE DETAIL, EE502.
- 5. INTERCEPT AND RE-ROUTE 15KV FEEDER, 2-1 AWG, 3" C. ENCASE IN 3" 3000 PSI CONCRETE. INTERCEPT EXISTING LINE AND SPLICE WITHIN NEW MANHOLE. SEE MANHOLE DETAIL, EE502.
- 6. INTERCEPT AND RE-ROUTE EXISTING 240 V SITE LIGHTING CIRCUIT. DETERMINE SIZE AND QUANTITY OF EXISTING WIRING AND REPLACE WITH LIKE-KIND. PROVIDE PULL BOXES AS REQUIRED.
- 7. EMERGENCY PHONE SHALL BE RELOCATED DURING CONSTRUCTION PHASE 1 AND EXISTING POWER AND DATA CABLING SHALL BE RE-ROUTED TO TEMPORARILY SERVE THE PHONE. EMERGENCY PHONE SHALL REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION. UPON COMPLETION OF GARAGE CONSTRUCTION, PHONE SHALL BE DISCONNECTED FROM THE EXISTING TEMPORARY FEED AND RECONNECTED TO BE FED FROM THE GARAGE.
- 8. CIRCUIT POLICE CONTROL GATE TO EXISTING 1P-20A BREAKER IN PANEL 'SL1' FORMERLY SERVING EMERGENCY BLUE LIGHT PHONE. REROUTE EXISTING CONDUCTORS.
- 9. PROVIDE EXTENSION RING(S) FOR MANHOLE AS REQUIRED TO RAISE COVER TO NEW FINISHED GRADE.

SITE EQUIPMENT CIRCUIT SCHEDULE	
AUTOGATE ENTRY 1	'PL-1-2-15
AUTOGATE ENTRY 2	'PL-1-2-17
AUTOGATE EXIT 1	'PL-1-2-21
AUTOGATE EXIT 2	'PL-1-2-23
AUTOGATE EXIT 3	'PL-1-2-25
EMERGENCY PHONE (NORTH)	'EPLS-1-2-18
EMERGENCY PHONE (SOUTH)	'EPLS-1-2-20
'LOT FULL' SIGN	'PL-1-2-19
POLICE CONTROL GATE	'EPL-Q-1-2-9

LINETYPE LEGEND

- E E CONCRETE-ENCASED DUCT BANK
- E E POWER CONDUIT, DIRECT-BURIED PVC
- IT IT DATA CONDUIT, DIRECT-BURIED PVC

Revisions:	Date

**U.S. Department of Veterans Affairs**

VAMC MILWAUKEE  
5000 W. National Ave. Milwaukee, WI 53295

**ARCHITECT/ENGINEERS:**

**PROJECT LEAD**  
Architect, Structural Engineer, Civil Engineer

**GUIDON DESIGN**  
905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204  
317.800.6386 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

**MEP Engineer**  
APOGEE CONSULTING GROUP  
1151 Kildaire Farm Rd. Suite 120 Cary, NC 27511  
Tele: 919-858-7420

**Functional Design**  
CARL WALKER INC.  
11920 S. Highland Ave. Suite 2107 Lombard, IL 60148  
Tele: 630-307-3800

Drawing Title  
**ELECTRICAL SITE PLAN**

Approved for Design Concept:  
**FACILITY MANAGEMENT DIVISION MANAGER**

Project Title  
**PARKING STRUCTURE LOT 7**

Location  
**CLEMENT J ZABLOCKI VAMC**

Date  
**1 DEC 2015**

Checked By:  
**JKM**

Drawn By:  
**SCB**

A/E Project Number  
**14-692**

Building Number  
**#152**

Drawing Number  
**EE101**

**OFFICE OF FACILITIES MANAGEMENT**

VA Project Number  
**695-325**

U.S. Department of Veterans Affairs



# GENERAL NOTES

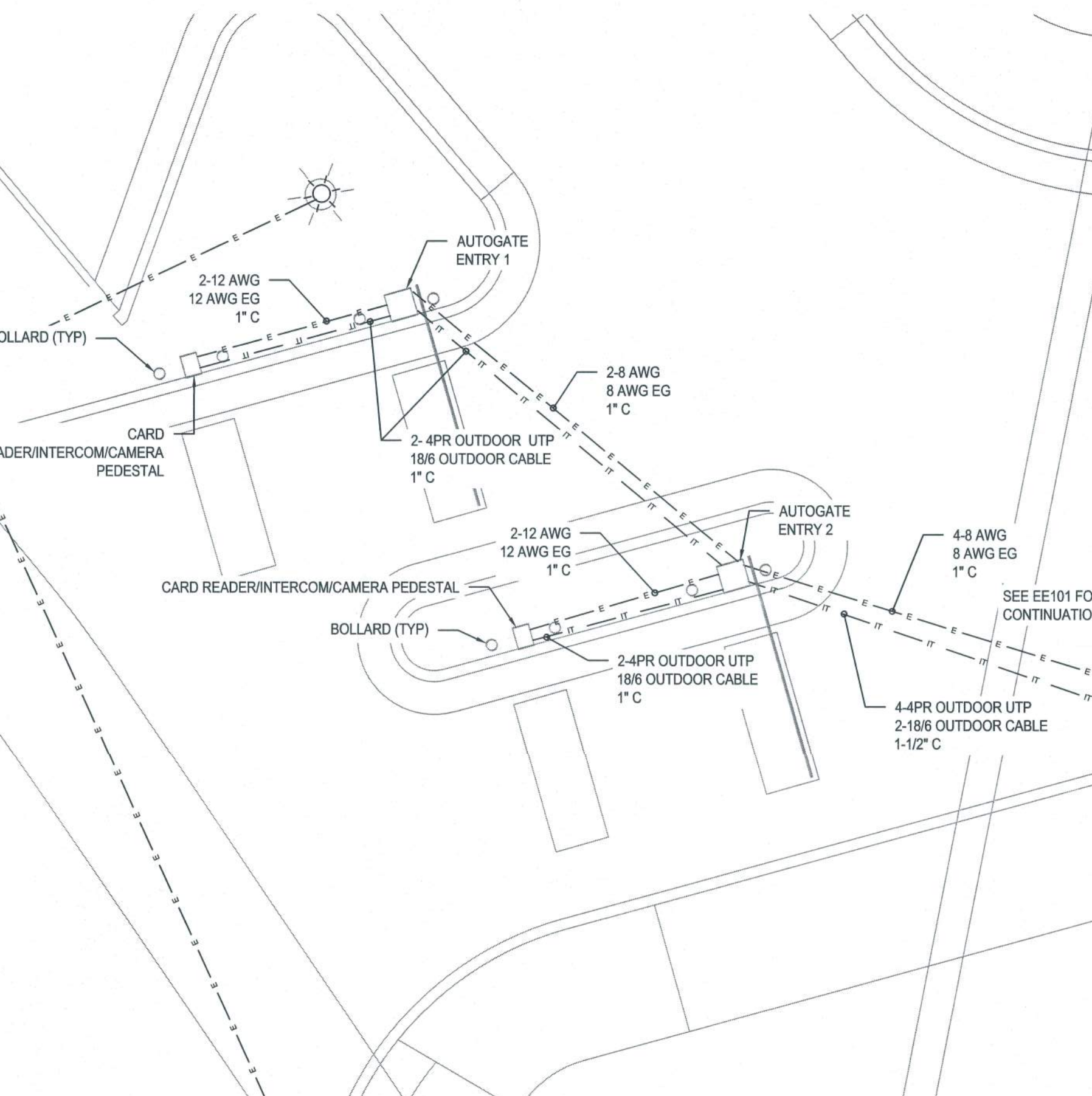
- CONDUIT ROUTING SHOWN IS SCHEMATIC ONLY. CONTRACTOR SHALL DETERMINE ALL CONDUIT ROUTING.
- ALL WORK SHALL BE COORDINATED WITH COR AND OTHER TRADES.
- AFTER WORK IS DONE, CONTRACTOR SHALL RESTORE ALL AFFECTED AREAS TO THEIR ORIGINAL CONDITION.
- COORDINATE EXACT LOCATIONS AND ANGLES OF EMERGENCY PHONES WITH THE COR.
- VERIFY PARKING CONTROL AND EMERGENCY PHONE CABLING REQUIREMENTS WITH MANUFACTURER/REPRESENTATIVE.
- INSTALL POLE LIGHTS PER POLE BASE DETAIL, EE502.
- INSTALL EMERGENCY BLUE LIGHT PHONES PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE NEW PANEL SCHEDULE FOR PANEL 'SL1'.

# KEYED NOTES

- APPROXIMATE LOCATION OF EXISTING TERMINATION OF CONCRETE-ENCASED DUCT BANK FROM LOT 4 GARAGE. INTERCEPT EACH CONDUIT TO CONTINUE DUCTBANK. SEE SINGLE LINE DIAGRAM FOR DETAILS. CONDUIT MAY BE REDUCED TO SIZE INDICATED ON SINGLE LINE. SPARE 4" CONDUIT SHALL STUB UP IN IT ROOM.
- CONDUIT BENEATH ROAD SHALL BE BY DIRECTIONAL BORE. ROAD IS TO REMAIN IN-USE DURING CONSTRUCTION. SEE CIVIL PLANS FOR ADDITIONAL DETAILS.
- NOT USED.
- PROVIDE 6x10" MANHOLE FOR MEDIUM-VOLTAGE INTERCEPTION AND RE-ROUTING. SEE MANHOLE DETAIL, EE502.
- INTERCEPT AND RE-ROUTE 15KV FEEDER, 2-1 AWG, 3" C. ENCASE IN 3" 3000 PSI CONCRETE. INTERCEPT EXISTING LINE AND SPLICE WITHIN NEW MANHOLE. SEE MANHOLE DETAIL, EE502.
- INTERCEPT AND RE-ROUTE EXISTING 240 V SITE LIGHTING CIRCUIT. DETERMINE SIZE AND QUANTITY OF EXISTING WIRING AND REPLACE WITH LIKE-KIND. PROVIDE PULL BOXES AS REQUIRED.
- EMERGENCY PHONE SHALL BE RELOCATED DURING CONSTRUCTION PHASE 1 AND EXISTING POWER AND DATA CABLING SHALL BE RE-ROUTED TO TEMPORARILY SERVE THE PHONE. EMERGENCY PHONE SHALL REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION. UPON COMPLETION OF GARAGE CONSTRUCTION, PHONE SHALL BE DISCONNECTED FROM THE EXISTING TEMPORARY FEED AND RECONNECTED TO BE FED FROM THE GARAGE.
- CIRCUIT POLICE CONTROL GATE TO EXISTING 1P-20A BREAKER IN PANEL 'SL1' FORMERLY SERVING EMERGENCY BLUE LIGHT PHONE. REROUTE EXISTING CONDUCTORS.
- PROVIDE EXTENSION RING(S) FOR MANHOLE AS REQUIRED TO RAISE COVER TO NEW FINISHED GRADE.

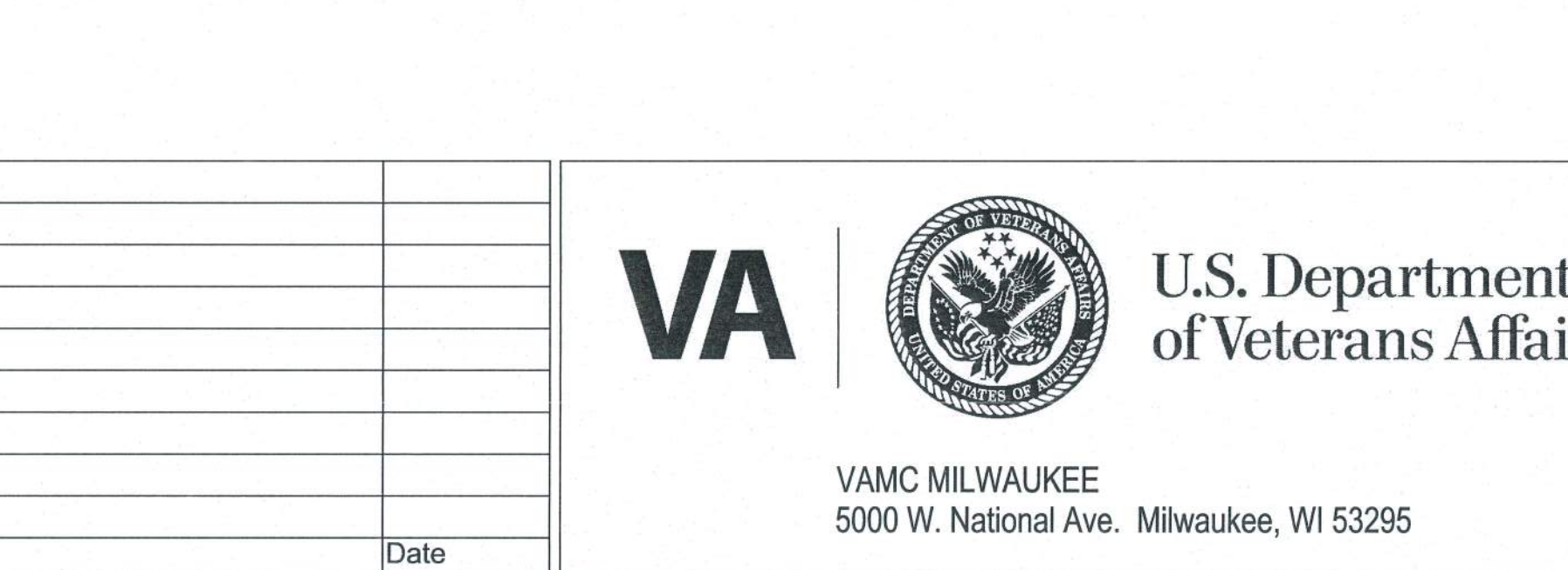
## 1 ELECTRICAL SITE PLAN

EE102 1" = 20'



## 2 AUTOGATE ENTRY

EE102 3/16" = 1'



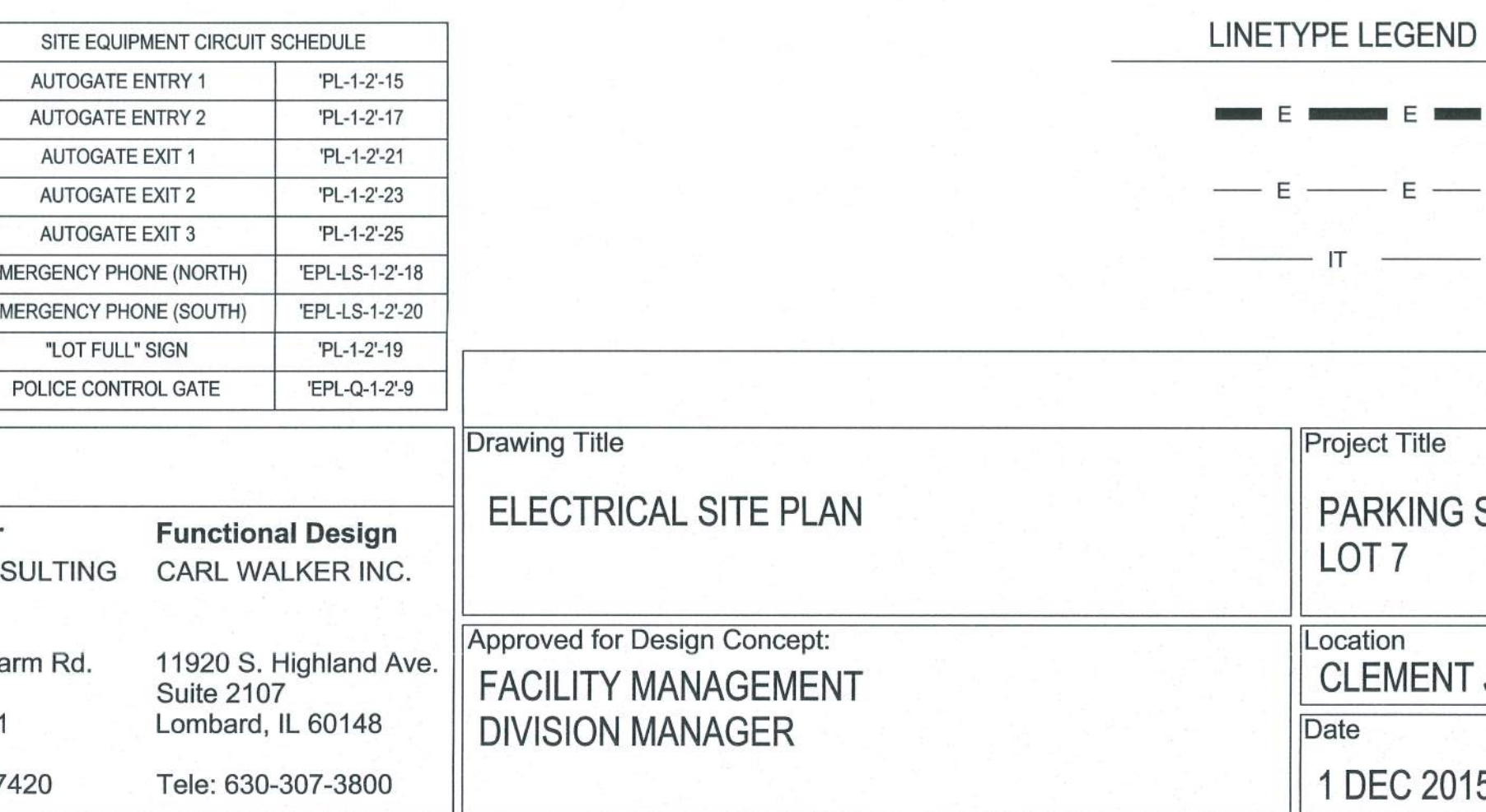
## 3 AUTOGATE EXIT 1 AND 2

EE102 3/16" = 1'



## 4 AUTOGATE EXIT 3

EE102 3/16" = 1'



SITE EQUIPMENT CIRCUIT SCHEDULE	
AUTOGATE ENTRY 1	PL-1-2-15
AUTOGATE ENTRY 2	PL-1-2-17
AUTOGATE EXIT 1	PL-1-2-21
AUTOGATE EXIT 2	PL-1-2-23
AUTOGATE EXIT 3	PL-1-2-25
EMERGENCY PHONE (NORTH)	EPL-S-1-2-18
EMERGENCY PHONE (SOUTH)	EPL-S-1-2-20
"LOT FULL" SIGN	PL-1-2-19
POLICE CONTROL GATE	EPL-2-1-2-9

### LINETYPE LEGEND

— E — E —	CONCRETE-ENCASED DUCTBANK
— E — E —	POWER CONDUIT, DIRECT-BURIED PVC
— IT —	IT/DATA CONDUIT, DIRECT-BURIED PVC

### BID SET

Drawing Title <b>ELECTRICAL SITE PLAN</b>	Project Title <b>PARKING STRUCTURE LOT 7</b>	A/E Project Number <b>14-692</b>	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: <b>FACILITY MANAGEMENT DIVISION MANAGER</b>	Location <b>CLEMENT J ZABLOCKI VAMC</b>	Building Number <b>#152</b>	VA Project Number <b>695-325</b>
Date <b>1 DEC 2015</b>	Checked By: <b>JKM</b>	Drawn By: <b>SCB</b>	Drawing Number <b>EE102</b>
<div> <div> <b>U.S. Department of Veterans Affairs</b> </div> </div>			

### ARCHITECT/ENGINEERS:

**PROJECT LEAD**  
Architect, Structural Engineer, Civil Engineer  
**GUIDON DESIGN**  
905 N. CAPITOL AVE. SUITE 100 INDIANAPOLIS, IN 46204  
317.880.6388  
WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

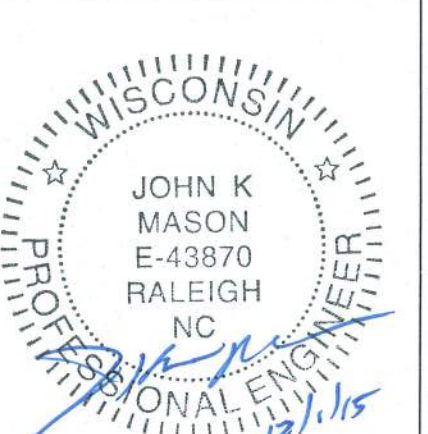
**MEP Engineer**  
APOGEE CONSULTING GROUP  
1151 Kildaire Farm Rd.  
Suite 120  
Cary, NC 27511  
Tele: 919-858-7420

**Functional Design**  
CARL WALKER INC.  
11920 S. Highland Ave.  
Suite 2107  
Lombard, IL 60148  
Tele: 630-307-3800

**VA**



**U.S. Department of Veterans Affairs**  
VAMC MILWAUKEE  
5000 W. National Ave. Milwaukee, WI 53295



C:\Users\edesign\Documents\CD\_NEWIT\_LOCALS\14.1025-A\_VMA-Garage\_Summit.dwg





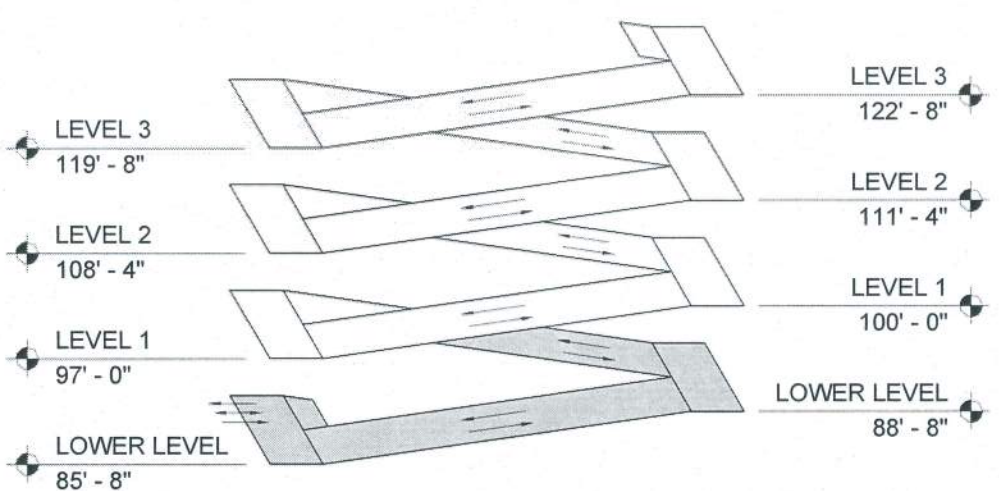


<b>KEYED NOTES</b>  1. INSTALL CAMERA ON CORNER-BRACKET, 15' ABOVE GRADE.		<b>GENERAL NOTES</b>  A. UNQ. ALL LIGHTING AND RECEPTACLE CIRCUITS SHALL BE 2-12 AWG, 12 AWG EG, 34" C. B. ALL NORMAL POWER LIGHTS ON THIS SHEET SHALL BE CIRCUITED TO PH-1-2-2. C. ALL EMERGENCY POWER LIGHTS AND EXIT SIGNS ON THIS SHEET SHALL BE CIRCUITED TO EPH-1-1-2-2.		 <p>KEY PLAN - LEVEL LL</p>	
<b>BID SET</b>					
Drawing Title <b>LEVEL LL ELECTRICAL PLAN</b>		Project Title <b>PARKING STRUCTURE - LOT 7</b>		A/E Project Number <b>14-692</b> Building Number <b>#152</b>	
Approved for Design Concept: <b>FACILITY MANAGEMENT DIVISION MANAGER</b>		Location <b>CLEMENT J ZABLOCKI VAMC</b> Date <b>1 DEC 2015</b>		Drawing Number <b>EE103</b>	
		Checked By: <b>JKM</b>		Drawn By: <b>SCB</b>	
				VA Project Number <b>695-325</b>   U.S. Department of Veterans Affairs	





Figure 1 shows six examples of the patterns of the six different types of the *Electrolux* signal, labeled A through F. Each example includes a vertical scale on the left and a horizontal scale at the top. The scales are as follows:

- A:** Vertical scale: 0, 6", 1. Horizontal scale: 0, 6".
- B:** Vertical scale: 0, 6", 2. Horizontal scale: 0, 6".
- C:** Vertical scale: 0, 6", 2. Horizontal scale: 0, 6".
- D:** Vertical scale: 0, 4. Horizontal scale: 0, 4.
- E:** Vertical scale: 0, 4. Horizontal scale: 0, 4.
- F:** Vertical scale: 0, 4, 8, 16. Horizontal scale: 0, 4, 8, 16.

The patterns are as follows:

- A:** A series of vertical lines of varying heights, with a horizontal line at the top. The vertical scale is marked at 0, 6", and 1. The horizontal scale is marked at 0 and 6".
- B:** A series of vertical lines of varying heights, with a horizontal line at the top. The vertical scale is marked at 0, 6", and 2. The horizontal scale is marked at 0 and 6".
- C:** A series of vertical lines of varying heights, with a horizontal line at the top. The vertical scale is marked at 0, 6", and 2. The horizontal scale is marked at 0 and 6".
- D:** A series of vertical lines of varying heights, with a horizontal line at the top. The vertical scale is marked at 0 and 4. The horizontal scale is marked at 0 and 4.
- E:** A series of vertical lines of varying heights, with a horizontal line at the top. The vertical scale is marked at 0 and 4. The horizontal scale is marked at 0 and 4.
- F:** A series of vertical lines of varying heights, with a horizontal line at the top. The vertical scale is marked at 0, 4, 8, and 16. The horizontal scale is marked at 0, 4, 8, and 16.

The patterns are labeled A through F, corresponding to the different types of the *Electrolux* signal.

Figure 1 shows six examples of the patterns of the six different types of the *Electrolux* signal, labeled A through F. Each example includes a vertical scale on the left and a horizontal scale at the top. The scales are as follows:

- A:** Vertical scale: 0, 6", 1. Horizontal scale: 0, 6".
- B:** Vertical scale: 0, 6", 2. Horizontal scale: 0, 6".
- C:** Vertical scale: 0, 6", 2. Horizontal scale: 0, 6".
- D:** Vertical scale: 0, 4. Horizontal scale: 0, 4.
- E:** Vertical scale: 0, 4. Horizontal scale: 0, 4.
- F:** Vertical scale: 0, 4, 8, 16. Horizontal scale: 0, 4, 8, 16.

The patterns are as follows:

- A:** A series of vertical lines of varying heights, with a horizontal line at the top. The vertical scale is marked at 0, 6", and 1. The horizontal scale is marked at 0 and 6".
- B:** A series of vertical lines of varying heights, with a horizontal line at the top. The vertical scale is marked at 0, 6", and 2. The horizontal scale is marked at 0 and 6".
- C:** A series of vertical lines of varying heights, with a horizontal line at the top. The vertical scale is marked at 0, 6", and 2. The horizontal scale is marked at 0 and 6".
- D:** A series of vertical lines of varying heights, with a horizontal line at the top. The vertical scale is marked at 0 and 4. The horizontal scale is marked at 0 and 4.
- E:** A series of vertical lines of varying heights, with a horizontal line at the top. The vertical scale is marked at 0 and 4. The horizontal scale is marked at 0 and 4.
- F:** A series of vertical lines of varying heights, with a horizontal line at the top. The vertical scale is marked at 0, 4, 8, and 16. The horizontal scale is marked at 0, 4, 8, and 16.

The patterns are labeled A through F, corresponding to the different types of the *Electrolux* signal.